

**ONLINE TUTOR MANAGEMENT SYSTEM  
USING MOBILE APPLICATION (EZITUTOR)**

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## ABSTRAK

Dengan kemajuan teknologi kini, telefon pintar menjadi suatu kemudahan yang dimanfaatkan sebaiknya. Justeru, banyak aplikasi yang dibangunkan untuk mencapai tujuan itu. Antaranya, Sistem pengurusan Tenaga Pengajar di atas talian (EziTutor) yang bertujuan membantu pelajar dan tenaga pengajar bertemu dan berinteraksi sesama satu sama lain untuk membuat kelas tuisyen. Aplikasi ini dibangunkan disebabkan oleh terdapat beberapa masalah yang sering dihadapi masyarakat di Malaysia terutamanya ibu bapa para pelajar sekolah iaitu mereka terpaksa membayar harga yang mahal untuk menghantar anak-anak mereka untuk ke pusat tuisyen atau kelas tambahan. Hal ini membebankan ibu bapa yang ingin melihat anak-anak mereka cemerlang seperti anak orang lain. Selain itu, masalah yang timbul adalah kualiti tenaga pengajar disesetengah pusat tuisyen tidak memuaskan. Hal ini kerana tenaga pengajar tersebut tidak mengetahui dan mengikuti perkembangan silibus yang diajar di sekolah. Ada juga yang mengajar hanya untuk mencari wang saku tanpa mengira ilmu yang disampaikan itu difahami pelajar atau tidak. Oleh yang demikian, pengorbanan ibu bapa para pelajar tampak penuh dengan sia-sia dan tidak mendatangkan manfaat pada anak mereka. Masa dan jarak juga menjadi faktor mengapa para pelajar mempunyai masalah untuk ke kelas tuisyen. Hal ini adalah kerana jadual kelas sudah ditetapkan oleh pihak tuisyen dan tidak dapat diubah mengikut kesesuaian pelajar tersebut. Untuk pelajar yang jauh daripada pusat tuisyen juga menjadi masalah berulang-alik ketempat tersebut. Masalah lain ialah tiada alternatif lain untuk para pelajar mengetahui siapa yang menyediakan perkhidmatan kelas tambahan atau tuisyen diluar kawasan mereka kecuali pusat tuisyen. Oleh sebab masalah-masalah ini aplikasi EziTutor dibangunkan. Aplikasi ini dapat mengurangkan kos pelajar membayar harga tuisyen tersebut kerana tidak ada campur tangan daripada pihak pusat tuisyen. Aplikasi ini dapat menunjukkan lokasi tenaga pengajar yang ingin membuat kelas tuisyen yang berhampiran dengan pelajar tersebut. Pelajar dapat membandingkan harga setiap kelas tuisyen dan mendaftar nama di kelas tersebut. Notifikasi akan diberikan kepada tenaga pengajar. Dengan adanya aplikasi ini diharap dapat membantu pelajar menjadi pelajar yang cemerlang khusus keluarga pelajar yang berpendapatan rendah. Objektif projek ini adalah untuk membangunkan aplikasi berasaskan mudah alih, dan membuat peningkatan ciri-ciri aplikasi pembelajaran sedia ada. Kaedah Rapid Kitaran Pembangunan Aplikasi (RAD) telah dipilih sebagai pembangunan perisian metodologi untuk projek ini.

## **ABSTRACT**

With today's technological advances, smartphones have become a useful facility. Hence, many applications are developed to achieve that goal. Among them, the Online Tutor Management System (EziTutor) which aims to help students and Tutors meet and interact with each other to make tuition classes. This application was developed due to the problems faced by many people in Malaysia especially the parents of that have children in school that they had to pay an expensive price to send their children to a tuition center or an extra class. It is a burden to parents who want to see their children excel like other children. In addition, the problem arises is the quality of the teaching staff and materials is irrelevant. This is because the instructors are not aware of and follow the syllabus taught in schools. There are also those who teach only to find some money regardless of is the knowledge that the student understands or not. As a result, the sacrifice of parents of students seems to be futile and not beneficial to their children. Time and distance are also factoring why students have problems with tuition classes. This is because the class schedule has been set by the tuition and cannot be changed according to the suitability of the student. For students who are away from the tuition center, it is also a matter of commuting to the place. Another problem is that there is no other alternative ways for students to know who provides extra classes or tuition services outside their area except tuition centers. Because of these problems the EziTutor app is developed. This app can reduce the cost of the student to pay the tuition rate because there are no extra charges from the tuition center. This app can detect the location of the tutor who wants to make a tuition class that located near to the student. Students can compare the price of each tuition class and register the name in the class. Notifications will be given to tutor. With this application hopefully, it will help students to be excellent students especially for low-income families. The objective of this project is to develop mobile-based applications, and to improve the features of existing learning applications. Rapid Method of Application Development Cycle (RAD) has been selected as a software development software for this project.

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## LIST OF SYMBOLS

## **LIST OF ABBREVIATIONS**

RAD	Rapid Application Development
EziTutor	Online Tutor Management System
MQA	Malaysia Qualification Agency
OS	Operating System
PDA	Personal digital assistant.
GUI	Graphical User Interface
SDLC	Software Development Life Cycle

## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 Background of study**

In the civilization era of information and communication system, people are easily getting information and connect with each other using their smartphone. This happen because it gets support with new and rapidly growing Mobile application sector. This growing sector can give global positive impact or negative impact to its users. Many developers created android application and iOS application that focus on entertainment such as games, music, social media and other to its mobile application user but few of them created mobile application that can help people in their daily routine or in life. For example, Google Maps and manage to help people to travel from one destination to other destination in short distance as possible. Moreover, this help the people make calculate of budget before travelling and can save cost and time. Thus, the role of mobile application is big enough to give impact to society and change the way how we are living.

This EziTutor mobile application use the function of Google Maps and implement at different area which is education in Malaysia. The purpose of this application mainly to help student especially from poverty family to have a better education by providing a platform for student and tutor meet each other. Currently, tuition centre is the ideal place for both student and tutor to meet each other but there are many issues regarding the tuition centre such as highly fees. Thus, student from poverty family cannot afford to have tuition.

EziTutor mobile application is used android as it operating system. This application shows how many tutors available, the distance and cost so that student can select their preferable choice. By doing this student from poverty family can select the lowest fees to have tuition with a standard level of quality tutor. Only qualify people can

be register as tutor in this application by selecting based on their resume and certificate for safety and quality issue. Hopefully this application can change the way of education in Malaysia.

## **1.2 Problem Statement**

With the success development and growth of economic and technology in Malaysia, giving the best education to the people is the main factor behind of it. It should start with our children in their kindergarten, primary and secondary school. Moreover, this new generation is our hope to lead the country in the future. Thus, everyone must take responsible to take care of this new generation especially parents and tutors. One thing that parents that can do to improve and help the education of their children is by sending their children to tuition either conducted by the school itself or outside of the school. (Labour & Survey, 2015)

The tuition centre is place where the students are usually taught how to tackle examination question. Thus, this is the most preferable place to send their children to gain more knowledge and excel in examination among parents in Malaysia. Unfortunately, there are several weakness and issue regarding the tuition centre. First, the issue is not all parents have the financial ability to support their children to get this extra education. The charging fees of tuition centre is expensive because there are many individuals involve which are tutors, staff of tuition centre and the owner of the place. The solution to this problem currently is to gain more financial income by doing more jobs or part time jobs. This become a burden especially poverty family. (Renehan, 2015)

Second, the students do not know who will be teaching them because the tutors are provided by the tuition centre. They do not have flexibility to choose the tutor who are teaching the subject. Furthermore, there is tutor that provided by the tuition centre teaching the subject not in their niche area and they not know the current school syllabus. The tuition centre lack of experience tutor but in same times still doing the business because of money. Thus, the student will not achieve the good result in their examination because this extra class does not give any added value and knowledge to them. (Lumpur, 2016)



Lastly, tutor or people who want to do part time job for teaching are depend with the tuition centre. Tutor need to wait if the tuition centre is not available for them and if they want to do the tuition by their own it is difficult for them to get student. This is because there is no platform provided for gathering the student except the tuition centre.

**Table 1.1 the Summary of Problem Statement**

Problem	Description	Effect
The tuition centre fees expensive	There are many parties involve such as the owner of the place, tutor and staff that organize the tuition centre	Parent need to find other income to pay this fee especially student that come from poverty family
Unqualified or inexperienced tutor	The tutor provide by the tuition centre is not from education background or not expert in the subject that they teach	Student cannot understand what the tutor teaches and will affect the examination
Student and tutor do not have contact each other	The student wants to find the best tutor for the subject and tutor need gather student that want learn the subject, but both cannot contact each other	Student and tutor need to depend on tuition centre to learn and teach the subject respectively

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